Institute of new information technology: experience, problems and prospects

Director of INIT
Ukuev B.T.
INIT today:

- 2800 students;
- 5 faculties;
- 10 departments;
- 16 directions of preparation of bachelors and masters;
- 3 international educational center;
- 215 persons of faculty;
- 90 engineers, programmers, methodologists and laboratorians.
Qualitative structure of faculty

From 215 person:

- 10 doctors and professors;
- more then 58 phD and senior teachers;
- 22 masters.

2 doctor's and 22 phD degree dissertations are protected.

28 teachers trained and increased qualification in foreign countries (Germany, Austria, Sweden and India). Annually 5 teachers of INIT pass from two six monthly training in International educational center Aptech (India).
Material and technical base

INIT has modern material and technical base:

– 15 computer labs;
– 250 modern computers and other office equipment;
– 4 complete set of the equipment for carrying out videoconferences;
– 14 educational labs.
The educational-research centers and laboratories

On the basis of institute are opened and successfully function:

- Industrial practice laboratory "MIS-USTA";
- The educational-publishing center (mini printing house) "Avantguarde";
- Professional sound department «The Gold disk»;
- Industrial workshops "Komuz-USTA", "INIT-STYLE";
- Fitness center "Leader";
- Digital art photo salon "Mirage";
- Student's service-centers.
The Indo-Kyrgyz centre for information technology

The center has been opened on August, 15th, 2007 in Day of Independence of India. The purpose of creation of the Center is preparation and retraining of qualified personnel for the subsequent transformation of Kyrgyzstan to economy of knowledge.

In the Center are:
- 85 computers;
- 6 servers;
- the equipment for carrying out of videoconferences;
- 4 projectors and other office equipment.

In the Center were trained more than 250 workers of various firms and the organizations of Kyrgyzstan with reception of the certificate of the international sample, and also more than 800 students and schoolboys have received skills of programming on special courses.
The faculty of information technologies is formed 1998. The faculty carries out preparation of the competent and demanded bachelors and masters in directions:

- Information systems and technologies;
- Computer linguistics;
- Fundamental and applied linguistics (English, French languages);
- The applied mathematics and computer science;
- Computer science.
Faculty of applied computer science

The basic purpose of Faculty of applied computer science is preparation of highly skilled experts of new two-profile type.

The faculty prepares for bachelors and masters in directions:

- Applied computer science (on fields);
- Mathematics and computer technologies;
- Arrangement of the nature and water use.
The Kyrgyz-German faculty of computer science is created in 2003 on the basis of the contract between KSUCTA and West-Saxon university of applied sciences (Germany).

The faculty prepares for highly skilled bachelors in directions:

- Computer science (under the German educational standard);
- Information safety;
- Recreation and sports tourism.
The international accreditation of a direction "Computer science"

КГУСТА the first in Kyrgyzstan (2011г.) has successfully passed the international accreditation on preparation of bachelors in a direction "Computer science" authoritative Europe International Accreditation Agency ASIIN (Germany).

Preparation of students in the given direction is conducted on faculty PSIS of the Kyrgyz-German faculty of computer science with participation of professors of West-Saxon university (Zwickkau, Germany).
The Kyrgyz-French faculty of information-communication technologies is formed in 2005 on the basis of cooperation between KSUCTA and University Sofia the Antipolicy (Nice, France).

The faculty prepares bachelors in a direction “Information and communication technologies”. 
The Kyrgyz-Indian faculty of computer engineering is formed in 2008 on the basis of the Indo-Kyrgyz centre for information technologies. In cooperation with university VIT (Vellore, India) carries out preparation of bachelors in directions:

- Fundamental computer science and information technologies;
- Program engineering;
- Computer science and computing machinery.
The Kyrgyz-Chinese educational center has been founded in 2008 on the basis of the arrangement between KSUCTA after N.Isanov and Zhengzhou railway university of tele-radio broadcasting (Peoples Republic of China).

The center prepares bachelors for the direction of Fundamental and applied linguistics (the Chinese, Russian languages).
The international educational programs

- **Direction "Computer science"** at the Kyrgyz-German faculty of computer science under the German educational standard together with West-Saxon university of applied sciences (of Zwickkau) with delivery of two diplomas;

- **Direction «Information and communication technologies»** on Kyrgyz-French faculty of information-communication technologies under the European standard in cooperation with University Sofia the Antipolicy (Nice) with delivery of two diplomas;
The international educational programs

- Directions «Fundamental computer science and information technologies», «Program engineering» and «Computer science and computer facilities» at the Kyrgyz-Indian faculty of computer engineering under programs of leading IT-high school of India VIT (Vellore) and International Educational center Aptech with delivery of two diplomas and the certificate of company Aptech;

- Direction «Fundamental and applied linguistics (the Chinese and Russian languages)» in the Kyrgyz-Chinese educational center in cooperation with Zhengzhou railway university of tele-radio broadcasting of the Peoples Republic of China.
The international educational programs

KSUCTA is head high school and high school-coordinator of University of the Shanghai Organization of cooperation (USOC) in the Kyrgyz republic on preparation of masters in a direction of "IT-technology".

Preparation is conducted on faculty IST on master degree program of "Database".

4 students KSUCTA have passed training within a year at Novosibirsk state university.
Remote training in ИНИТ is begun with 2003.

The first stage - in INIT opened Kyrgyz Representation of the Euroasian Open Institute, for citizens of Kyrgyzstan is given the opportunity, not leaving native places and being trained by means of Internet to receive the diploma of the Moscow State University of Economy, Statistics and Computer science (MSUESC).

Now on all specialities KSUCTA including INIT, licenses are received, Russian program “PROMETEIA” is introduced.
Research development

By forces of scientists INIT are executed state budgetary
Research developments for a total sum 2 million soms, results
of 6 scientific works are introduced in manufacture, is
received more than 30 patents and copyright certificates.

By experts of institute are developed and works on the
further perfection of Web-sites of the Ministry of Education
and science KR, National certifying commission KR, State
agencies on a national language, and also the Scientific and
technical portal of Kyrgyzstan are spent.

In 2011 under the offer of State agency on a national
language and at support MES KR it is officially entrusted to
our institute to translate on the Kyrgyz language the interface
of operational system Windows 7 packages MS Office 10.
Communications with the enterprises and the organizations

- 3 branches of faculties are created;
- Are concluded agreements about joint activity with 25 enterprises and the organizations;
- Are concluded agreements about joint preparation with 26 schools.

Base schools:
- National computer grammar school (ms. N5);
- ms. after B. Ukuev of Dzhety-Oguzs region.
Attraction of investments

INIT from the beginning pays the maximal attention to attraction of investments.

On the basis of allocated by the Government of India of the grant in the sum 1 million US dollars is created the Indo-Kyrgyz center of Information technologies largest in the Central Asia. The government of India the decision on additional allocation of the order 1 million US dollars on modernization of the Center is accepted.

The Kyrgyz-German faculty of computer science has been created under project DAAD for the sum more than 370 thousand €. Subsequently 2 more projects for a total sum 300 thousand € have been won.

It is planned to create the International virtual university with participation of several universities of the Central Asia and the European union. The rough sum of investments of the given project makes nearby 8 million €.
 Achievements of students

INIT students participate in realization of state budgetary projects, some of them start to perfect professional skills, combining work with study.

The institute enables students in having time in study independently to pay a part of the contract by their attraction to various works, in particular, to administration of computer networks, repair of the equipment, national-applied art.

Many students pass training during a semester or academic year in high schools of Russia and the Europe. The institute gives an opportunity to protect degree projects through the Internet by means of the equipment for carrying out of videoconferences.

Annually INIT students receive Presidential grants.

Repeatedly student’s teams successfully acted on Olympiads of programmers.
INIT has prepared more than 2500 experts. The majority of INIT graduates were arranged for prestigious works, they are demanded not only at our country, but also behind its border.

The level of employment of graduates exceeds 65%.

«The center of career» of institute assists with a choice of the future place of work.
Prospects of development

To increase quality of education with the purpose of stage-by-stage transition to methods of training and curriculums in all directions of preparation with the purpose of conformity to the International standards incorporated by high schools of European and other developed countries in Bologna declaration.

To develop an IT-infrastructure of university up to a level of leading world (global) high schools and to provide all employees and students of university with wireless unlimited access to the Internet, including services of electronic libraries of leading high schools and the scientific organizations.

To create on the basis of KSUCTA Virtual university for effective introduction of achievements of IT-high schools of the leading countries in educational process KSUCTA. To make Virtual university the center of Kyrgyzstan on remote training.

To introduce the Kyrgyz language in all software products widely used in Kyrgyzstan.

To create school of professional programmers for the decision of actual problems of economy of Kyrgyzstan and on its basis - «The Chu silicon valley».
THANKS FOR ATTENTION!